



# Virus?

OR

# Bacteria



Bacteria & viruses are  
EVERYWHERE - air, skin  
water, you name it

yes: some can make you  
sick

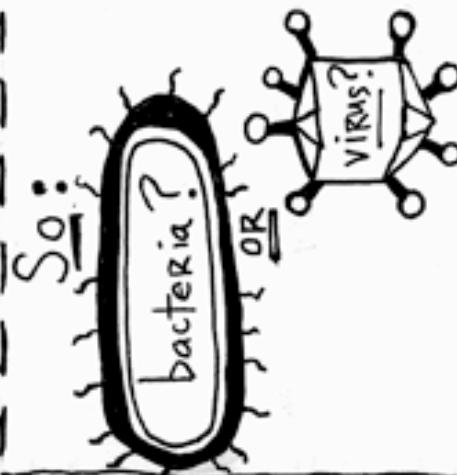
but: most do not!

in fact 500 different  
kinds of bacteria live  
inside you & help you!

they can't live independently  
& so they "infect" cells.

Knowing about them  
things can tell you  
a lot!

Smart Science Collective 2007  
http://smartschoolscience.com



So:



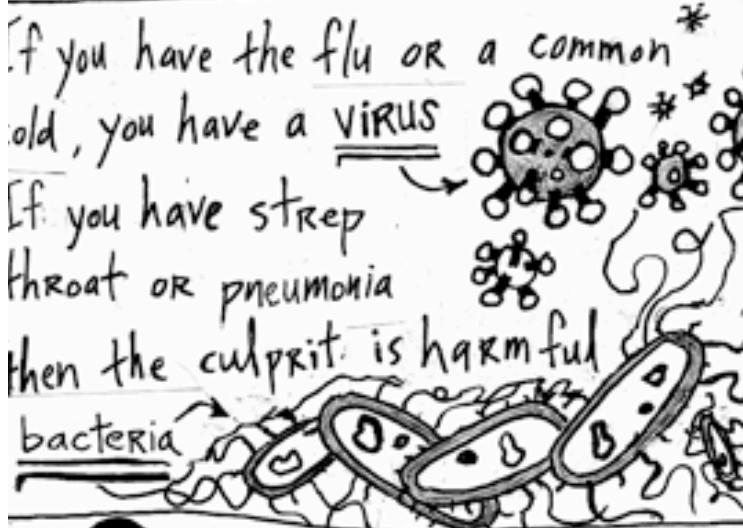
OR

your body is made of cells,  
like this blood cell



bacteria are cells too, only  
smaller

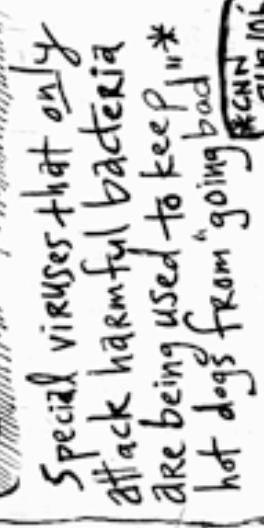
But viruses are not cells



If you have the flu or a common cold, you have a virus  
If you have strep throat or pneumonia then the culprit is harmful bacteria

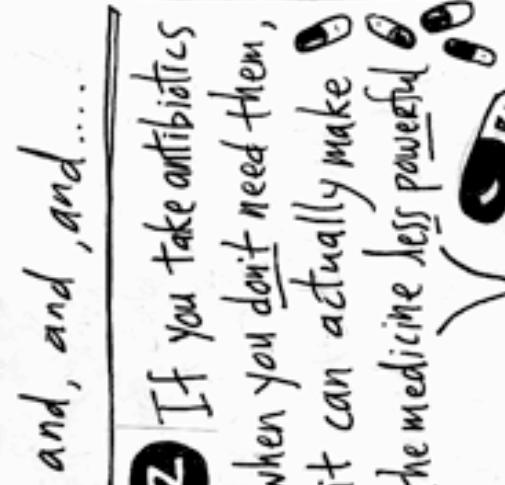


Now scientists have actually found some ways to use special bacteria to viruses as medicines...  
that kill bacteria but not you! Antibiotics



Special viruses that only attack harmful bacteria are being used to keep "bad" bacteria from growing back! Antibiotics

and so it may take you longer to get better next time... Antibiotics



1 If you take antibiotics when you don't need them, it can actually make the medicine less powerful because antibiotics kill both bacteria and viruses.



Antibiotics work only if you have a bacterial infection.

\*Don't take antibiotics to cure a cold!

Why?

because antibiotics don't fight viruses, which cause